

In the Specification:

Please replace the paragraph starting on page 29, line 29 through page 30, line 5 with the following paragraph:

-- ERR α upstream (3'UTR): CAG GAA AGT GAA TGC CCA GG (SEQ ID NO:1)
ERR α downstream (3'UTR): CTT TGC AGC AAA TAT ACA TT (SEQ ID NO:2)
ER α upstream (Dom D 5'): GAG CTG CCA ACC TTT GGC CAA GT (SEQ ID NO:3)
ER α downstream (Dom D 3') : TGA ACT TGA TCG TGG AGA TTC (SEQ ID NO:4)
ER β upstream (Dom D): AAA GCC AAG AGA AAC GGT GGG CAT (SEQ ID NO:5)
ER β downstream (Dom E): GCC AAT CAT GTG CAC CAG TTC CTT (SEQ ID NO:6)
L32 upstream: CAT GGC TGC CCT TCG GCC TC (SEQ ID NO:7)
L32 downstream: CAT TCT CTT CGC TGC GTA GCC (SEQ ID NO:8) --

Please replace the paragraph starting on page 30, line 22 through page 31, line 10 with the following paragraph:

-- OC upstream: AGG ACC CTC TCT CTG CTC AC (SEQ ID NO:9)
OC downstream: AAC GGT GGT GCC ATA GAT GC (SEQ ID NO:10)
BSP upstream: CGC CTA CTT TTA TCC TCC TCT G (SEQ ID NO:11)
BSP downstream: CTG ACC CTC GTA GCC TTC ATA G (SEQ ID NO:12)
ALP upstream: CCC GCA TCC TTA AGG GCC AG (SEQ ID NO:13)
ALP downstream: TAG GCG ATG TCC TTG CAG C (SEQ ID NO:14)
OPN upstream: GCC ACT TGG CTG AAG CCT G (SEQ ID NO:15)
OPN downstream: GAA ACT CCT GGA CTT TGA CC (SEQ ID NO:16)
Cbfa1 upstream: CTT CAT TCG CCT CAC AAA C (SEQ ID NO:17)
Cbfa1 downstream: CAC GTC GCT CAT CTT GCC GG (SEQ ID NO:18)
Cyclin D1 upstream: TCC CGC CAG CAG CAA GAC AC (SEQ ID NO:19)
Cyclin D1 downstream: TGA GCT TGT TCA CCA GAA GC (SEQ ID NO:20)
c-Fos upstream: ATA GAG CCG GCG GAG CCG CG (SEQ ID NO:21)
c-Fos downstream: AAG CCC CGG TCG ACG GGG TG (SEQ ID NO:22)

In re: Aubin et al.
Serial No.: 10/089,429
Filing Date: November 29, 2002
Attorney Docket No.: 3477-95

Bax upstream: CCT TGG AGC AGC CGC CCC AG (SEQ ID NO:23)

Bax downstream: ATG TGG GCG TCC CGA AGT AGG (SEQ ID NO:24)

Bcl-2 upstream: GGG GAA ACA CCA GAA TCA AG (SEQ ID NO:25)

Bcl-2 downstream: AGA GAA GTC ATC CCC AGC CC (SEQ ID NO:26)

COLLI upstream: GGA GAG AGT GCC AAC TCC AG (SEQ ID NO:27)

COLLI downstream: CCA CCC CAG GGA TAA AAA CT (SEQ ID NO:28) --

Please replace the paragraph starting on page 31, line 28 through page 32, line 3 with the following paragraph:

-- Total protein was extracted from confluent HeLa and MC3T3-E1 cells according to standard methods (Current Protocols in Molecular Biology, vol. 1, 1996). Western blot analyses were performed using a semi-dry system. Immunoblotting was performed with rabbit polyclonal antiserum prepared against a rat peptide (NH-CPASDECEITKRR-C, SEQ ID NO:29) localized in the C domain of ERR α ; blots were incubated overnight at room temperature with the antiserum diluted to 1/500, and binding was detected using HRPO -conjugated goat-anti-rabbit antibodies (1/3000; BioRad) and chemoluminescence. --

Please replace the paragraph starting on page 34, line 17 through page 35, line 2 with the following paragraph:

-- The resuspended RC cells were plated in 24 wells plates at 10^4 cells/well. Antisense oligonucleotide inhibition of ERR α expression was accomplished with a 20-base phosphorothioate-modified oligonucleotide, localized to the A/B domain. The ERR α antisense oligonucleotide sequence was:
5'-TCACCGGGGGTTCAGTCTCA-3' (SEQ ID NO:30). Control dishes were treated with the complementary sense oligonucleotide or no oligonucleotide. Preliminary experiments were done to determine effective oligonucleotide concentrations that were not toxic. 0.1 μ M to 5 μ M oligonucleotides were added directly to cells either during the proliferation phase (days 1 to 6) and 0.5 μ M to 2 μ M oligonucleotides were

In re: Aubin et al.
Serial No.: 10/089,429
Filing Date: November 29, 2002
Attorney Docket No. 3477-95

added during the differentiation phase (day 5 (end of proliferation) to 11) or (day 9 (nascent nodule formation) to 15) in standard medium as above supplemented with 50 µg/ml ascorbic acid, 10 mM sodium β-glycerophosphate, and 10^{-8} M dexamethasone. Medium was changed every 2 days and fresh oligonucleotides were added. mRNA was collected at day 6 for the proliferation experiments and at day 15 for the differentiation experiments. Nodules were counted at 15 days. --

At the end of the specification, please enter the paper copy of the attached Sequence Listing.